

## ABSTRACT OF THE DISCLOSURE

A method of operating a matched filter of a point access memory (PAM) with variable lengths, suitable for a data storage region to store a received signal and for the matched filter to store a PN sequence in a storage region for reference values. The received signal comprises a plurality of sample data. The method of operating the matched filter of the PAM with variable lengths comprises: storing each sample data in the data storage region; shifting the PN sequence in the storage region for reference values to a corresponding position when all the sample data is stored in the data storage region; and performing a matching operation to match all the stored sample data and the PN sequence that are positioned in the corresponding position.